



National Transportation Safety Board Aviation Accident Data Summary

Location:	PHILADELPHIA, PA	Accident Number:	DCA85AA013
Date & Time:	02/05/1985, 2351 EST	Registration:	N926AX
Aircraft:	McDonnell Douglas DC-9-15	Injuries:	2 Serious
Flight Conducted Under:	Part 121: Air Carrier - Non-scheduled		

Analysis

AFTER LNDG, THE ACFT WAS PARKED ON THE RAMP FOR APRX 39 MIN TO LOAD CARGO. DRG THAT TIME, LGT FREEZING DRIZZLE WAS FALLING, INTERMITTENTLY MIXED WITH ICE PELLETS & SNW. THE CREW CHECKED THE ACFT SURFACES FROM THE COCKPIT & ENTRY DOOR, BUT OBSERVED NO ICE OR SNW ADHERING TO THE TOPS OF THE WINGS, NOSE SECTION, WINDSHIELD OR ABOVE THE DOOR. THE CAPT DECLINED AN OFFER TO DE-ICE, THO OTR ACFT WERE BEING DE-ICED. THE TAKEOFF WAS NRML (18 DEG NOSE UP ATTITUDE) UNTIL JUST AFTER LIFT-OFF, THEN THE ACFT ENTERED AN UNCOMMANDED L ROLL & BOTH ENGS COMPRESSOR STALLED. THE CAPT CORRECTED WITH L AILERON & RUDDER, THEN BEGAN ABORTING THE TAKEOFF. THE ACFT TOUCHED DWN LEFT OF THE RWY ON THE TAIL SKID & R WING TIP, APRX 5600' FROM THE THRESHOLD & ON A 070 DEG HDG. IT THEN TRAVELED ANOTHER 2025' IN A SWEEPING RIGHT ARC, HITTING 2 RWY SIGNS & CAME TO REST HDG WEST WITH THE R PYLON BENT DOWN. INV REVEALED A THIN LAYER OF ICE (EST 0.15' THICK) WOULD HAVE BEEN ON THE WINGS, RAISING THE ACFT'S STALL SPEED. WHEN DC-9-15 ACFT STALL, ENGS ARE SUSCEPTIBLE TO COMPRESSOR STALLS.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) WEATHER CONDITION - RAIN
 2. (F) WEATHER CONDITION - SNOW
 3. (F) WEATHER CONDITION - ICING CONDITIONS
 4. (F) LIGHT CONDITION - DARK NIGHT
 5. (C) WING - ICE
 6. (C) ICE/FROST REMOVAL FROM AIRCRAFT - NOT PERFORMED - PILOT IN COMMAND
 7. (F) VISUAL/AURAL DETECTION - PILOT IN COMMAND
 8. (C) STALL - INADVERTENT - PILOT IN COMMAND
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Occurrence #2: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

9. ABORTED TAKEOFF - INITIATED - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: TAKEOFF

Occurrence #4: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: OTHER

Pilot Information

Certificate:	Airline Transport	Age:	40
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	Helicopter	Instructor Rating(s):	
Flight Time:	7500 hours (Total, all aircraft), 1800 hours (Total, this make and model), 41 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	McDonnell Douglas	Registration:	N926AX
Model/Series:	DC-9-15 DC-9-15	Engines:	2 Turbo Fan
Operator:		Engine Manufacturer:	P&W
Operating Certificate(s) Held:	Air Cargo	Engine Model/Series:	JT8D-7
Flight Conducted Under:	Part 121: Air Carrier - Non-scheduled		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	PHL, 0 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	Overcast / 1000 ft agl	Wind Speed/Gusts, Direction:	9 knots / , 60°
Temperature:	-2° C	Visibility	2 Miles
Precipitation and Obscuration:			
Departure Point:	(PHL)	Destination:	WILMINGTON, OH (ILN)

Airport Information

Airport:	PHILADELPHIA INTL (PHL)	Runway Surface Type:	Concrete
Runway Used:	9L	Runway Surface Condition:	Snow--compacted
Runway Length/Width:	9500 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	2 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	JOHN G YOUNG	Adopted Date:
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .	

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